

# Servo Tank Gauging

## Application Data Sheet



In order to specify the correct instrument for your application please complete all fields for each tank.

**Completed By:**

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**Company:**

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**Tel:**

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**E-mail:**

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**Date:**

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**Notes:**

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**Application Details**

What product is stored in the tank?

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What is its density \_\_\_\_\_

What current tank gauging technology is used on this tank?

Radar  Servo  Mechanical

HTG  Hybrid  Magnetostrictive

None  Other: \_\_\_\_\_

Temperature units  °C  °F

Temperature min.: \_\_\_\_\_

Temperature max.: \_\_\_\_\_

Vapor pressure units  PSIG  BAR

Vapor pressure min.: \_\_\_\_\_

Vapor pressure max.: \_\_\_\_\_

Is there evidence of liquid turbulence or foaming on the product surface?

None  Turbulence  Foam

What area classification is required?

FM

ATEX

IEC Ex

Other \_\_\_\_\_

Non-hazardous area

**Tank**

What type of tank will the instrument be installed on?

Cone roof

Internal floating roof

External floating roof

Sphere

Horizontal cylinder

Vertical cylinder

Tank ID#: \_\_\_\_\_

Nozzle height (N): \_\_\_\_\_

Maximum fill level (F): \_\_\_\_\_

Tank shell height (T): \_\_\_\_\_

**Mounting**

What is the type and size of the nozzle connection?

Flange size: \_\_\_\_\_

Flange class: \_\_\_\_\_

ASME  DIN  Other

Are there other provisions for manually hand dipping the tank?

Yes  No

Is an isolation valve required?

Yes  No

**Communications Output**

What primary output protocol is required?

RS-485 MODBUS  Mark/Space

WM550  V1  Enraf GPU BPM

4-20mA HART Ex d/XP

4-20mA HART Ex i/IS

What secondary output protocol is required?

Relay output  2  4  6

RS-485 MODBUS

Ex d/XP 1x 4-20mA HART

Ex d/XP 2x 4-20mA HART

Ex i/IS 1x 4-20mA HART

Ex i/IS 2x 4-20mA HART

**Power Source**

What type and range of power source is available at the tank?  AC  DC

Power range (Volts): \_\_\_\_\_

Location:  Tank top  Tank side

**Tank side Indication**

Is tank side indication required?

Yes  No

**Stilling Well**

Will the instrument be mounted on an existing stilling well?  Yes  No

Stilling well diameter: \_\_\_\_\_

**Additional Approvals & Options**

SIL

CRN

Weather protection cover

Relief valve Rc3/8

Gas purging nozzle connection Rc3/8

Pressure gauge Rc3/8

Cleaning nozzle connection

Guide wire assembly

3-Point Calibration Certificate

5-Point Calibration Certificate

NMI factory Custody Transfer Certificate

NMI factory Custody Transfer Certificate, Max Performance

LNE factory Custody Transfer Certificate

LNE factory Custody Transfer Certificate, Max Performance

PTB factory Custody Transfer Certificate

PTB factory Custody Transfer Certificate, Max Performance

Test/Material Certificate

Type(s) \_\_\_\_\_

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DeviceCare DVD

Other \_\_\_\_\_

[www.varec.com](http://www.varec.com)

## Temperature Measurement

Do you require temperature measurement?

None  Spot  Average

If Average, please complete the temperature application data sheet.

## Other Measurements

Do you require other measurements?

- Density (Spot)
- Density (Profile)
- Tank bottom
- Interface level
- Contact input operation

## Example Installation

